

ABSTRACT

Encrypted auxiliary information data DYAE/DCAE including no inhibited codes is generated based on auxiliary information data DYA/DCA including no inhibited codes, in an auxiliary data packet having an auxiliary data flag ADF formed of a first combination of a plurality of inhibited codes, the auxiliary data flag ADF is replaced with an auxiliary data flag EADF formed of a second combination of the inhibited codes, the second combination being different from the first combination, to form an encrypted auxiliary data packet having the auxiliary data flag EADF and including the encrypted auxiliary information data DYAE/DCAE, and the encrypted auxiliary data packet is transmitted.